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Use of alpha-Alkyl-styryl derivatives (I) as photostable UV-filter in  
cosmetic or pharmaceutical compositions for protecting human skin or hair  
against sun light

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Patent Family:

| Patent No     | Kind | Date     | Applicat No | Kind | Date     | Week        |
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| DE 19855649   | A1   | 20000608 | DE 1055649  | A    | 19981203 | 200033      |
| JP 2000169354 | A    | 20000620 | JP 99340616 | A    | 19991130 | 200036      |
| CN 1264575    | A    | 20000830 | CN 99127874 | A    | 19991203 | 200059      |
| US 6159455    | A    | 20001212 | US 99451859 | A    | 19991201 | 200067      |
| EP 1005855    | B1   | 20030604 | EP 99122884 | A    | 19991118 | 200344      |
| DE 59905819   | G    | 20030710 | DE 505819   | A    | 19991118 | 200347      |
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Patent Details:

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Abstract (Basic): EP 1005855 A1

NOVELTY - alpha-Alkyl-styryl derivatives (I) are used as  
photostable UV-filter in cosmetic or pharmaceutical compositions for  
protecting the human skin or hair against the sun light, optionally  
combined with other components absorbing in the UV range.

DETAILED DESCRIPTION - alpha-Alkyl-styryl derivatives of formula  
(I) are used as photostable UV-filter in cosmetic or pharmaceutical  
compositions for protecting the human skin or hair against the sun  
light, optionally combined with other components absorbing in the UV  
range.

R1, R2=H, OH, NH2, 1-12C alkyl, 1-12C alkoxy, 1-12C alkylamino,  
1-12C dialkylamino, water soluble substituents such as carboxylate,  
sulfonate or ammonium residues;

R3, R4=COOR6, COR6, CONR6R7 or CN;

R5=1-12C alkyl;

R6, R7=H, 1-12C alkyl, 2-10C alkenyl, 3-10C cycloalkyl, 3-10C cycloalkenyl, aryl or heteroaryl (all optionally substituted);

A=O, S or NR8

B'=1-12C alkylene, 4-12C cycloalkylene, 8-22C aralkylene, 9-21C monooxoaralkylene or -(X)n-Y'-;

R8=H or 1-12C alkyl;

X=-(CH2)2-Z-, -(CH2)3-Z-, -CH(CH3)2-CH2-Z-, -(CH2)4-Z- or -CH2-CH(CH2-CH3)-Z-;

Y'=-(CH2)2-, -(CH2)3-, -CH(CH3)-CH2-, -(CH2)4- or -CH2-CH(CH2-CH3)-;

Z=O or S;

n=1-150;

two of R1, R2 and R8=form 5- to 6-membered ring fused to the benzene ring.

An INDEPENDENT CLAIM is also included for a sunscreen comprising the cosmetic and pharmaceutical composition for protecting the human epidermis and hair against UV light (280-400 nm) containing (I).

USE - (I) are useful as photostable UV-A filters or UV stabilizers in cosmetic or pharmaceutical compositions for protecting against UV light (280-400 nm).

ADVANTAGE - (I) have a high absorption capacity in a precise band of the UV-A rays. (I) are soluble in cosmetic oils and easy to use in cosmetic formulations. The emulsions comprising (I) have an high stability and provide an agreeable feeling to the skin. (I) have a high photostability

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Title Terms: ALPHA; ALKYL; STYRYL; DERIVATIVE; PHOTOSTABLE; ULTRAVIOLET; FILTER; COSMETIC; PHARMACEUTICAL; COMPOSITION; PROTECT; HUMAN; SKIN; HAIR; SUN; LIGHT

Derwent Class: B05; D21

International Patent Class (Main): A61K-007/02; A61K-007/40; A61K-007/42

International Patent Class (Additional): A61K-007/00; A61K-007/06;

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